

# Synthesis of Oligonucleotides

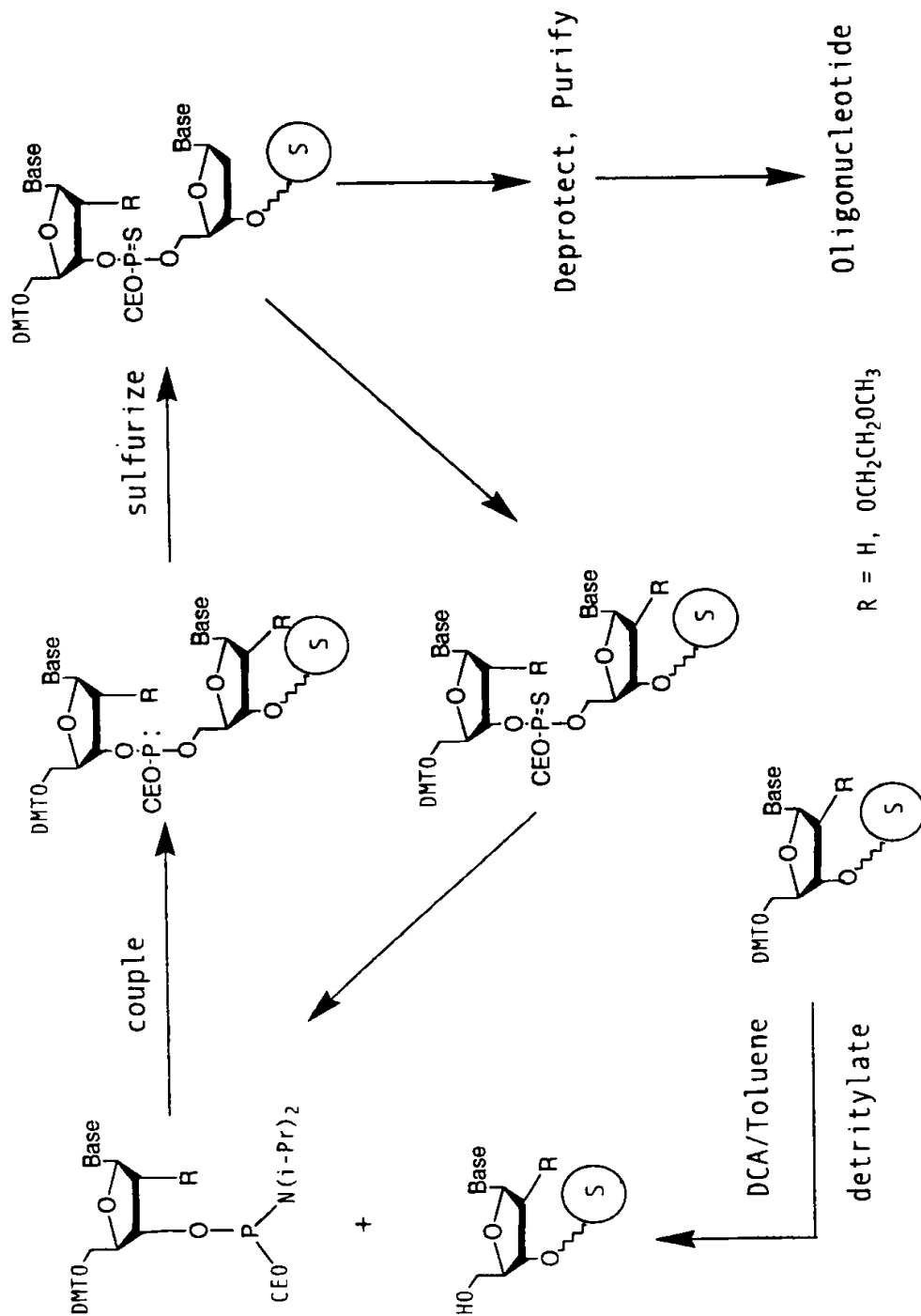
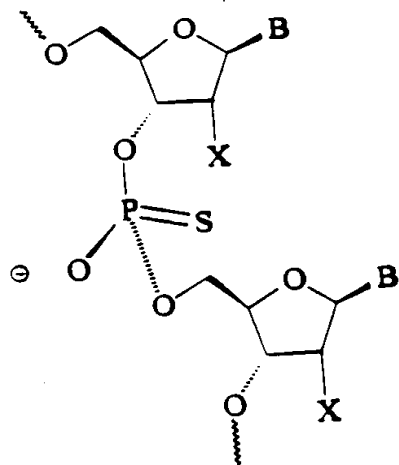
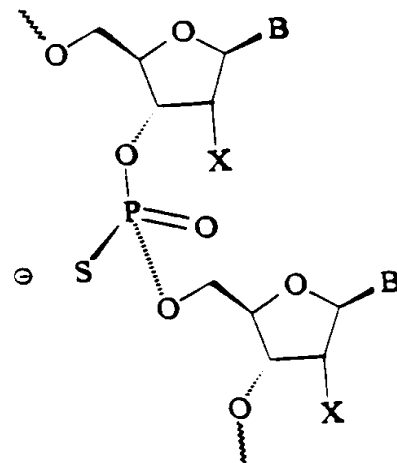


Figure 1

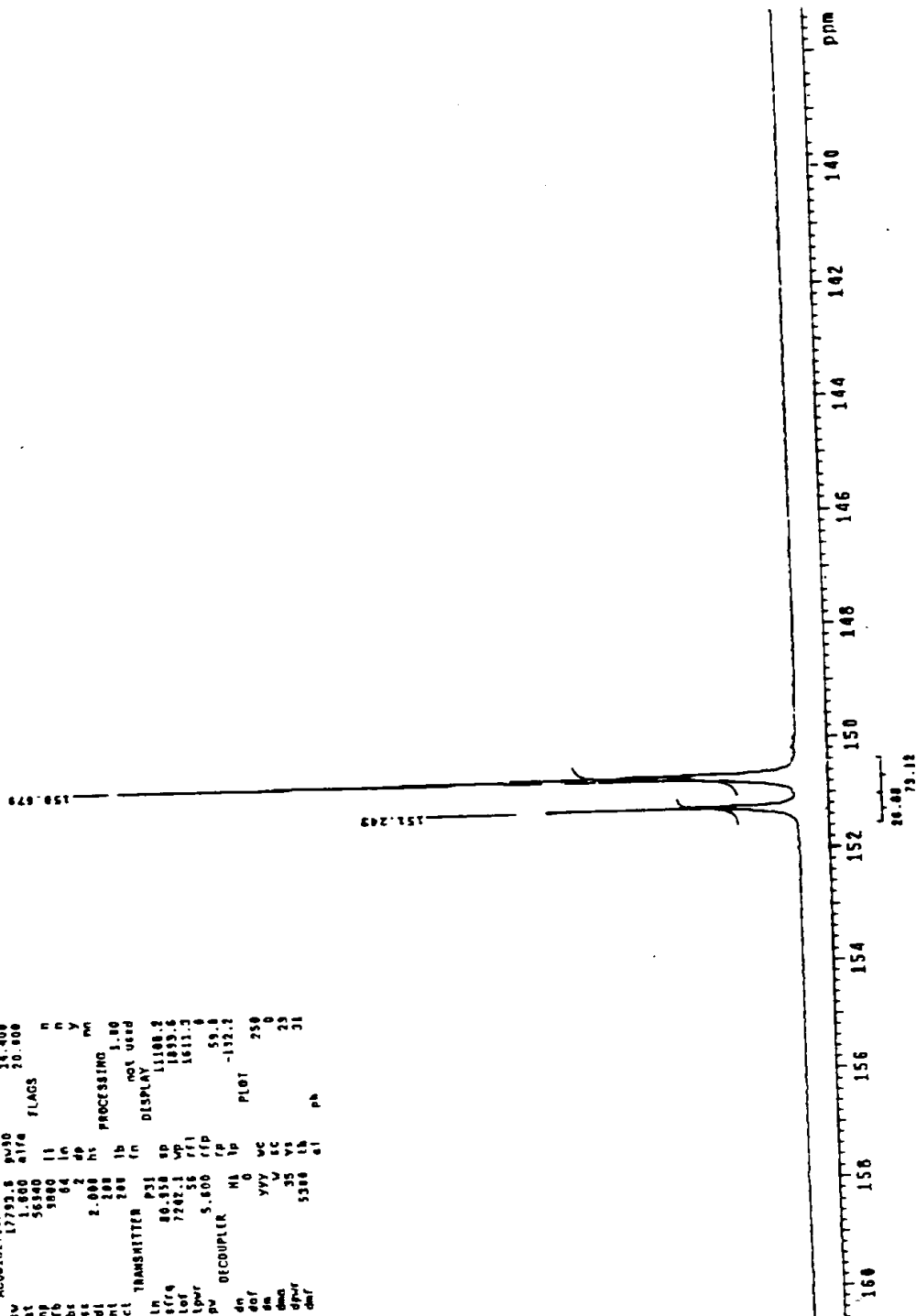
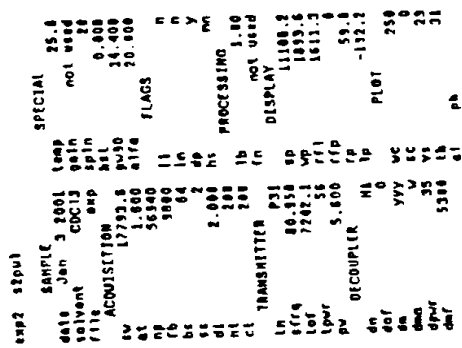


**R<sub>p</sub> isomer**



**S<sub>p</sub> isomer**

**Figure 2**



### Figure 3

VR0224-175  
 SURVEY PROTON NMR PARAMETERS  
 Referenced to triphenylphosphate at -16.  
 5 ppm in CDCl3  
 by PDM 5/4/2000

exp1 02901

SAMPLE		SPECIAL	
date	Dec 20 2000	temp	25.0
solvent	D2O	gain	not used
file	/nsport/home/- spin	z0	30
vmr1	new-data/Dec- bat	0.000	
2000/VR0224-175.0- p090		14.000	
oo_20_2000.000000- alia		20.000	
PDM.FID		PLAOS	
ACQUISITION			
pw	17793.6	in	n
at	1.000	cp	y
ap	50040	bo	mm
fb	9000	PROCESSING	
ba	64	1b	1.00
ea	2	fa	not used
dl	1.000	DISPLAY	
at	3500	wp	3498.7
et	3500	wp	2354.6
TRANSMITTER		ref	1011.3
ba	938	efp	0
afreq	80.950	rp	96.0
tol	7243.1	1p	-173.6
type	54	PLOT	
pw	5.600	wo	250
DECOUPLER		oc	0
da	51	vo	76
dof	0	th	66
da	may	al	ph
dam	w		
dpr	35		
dal	5300		

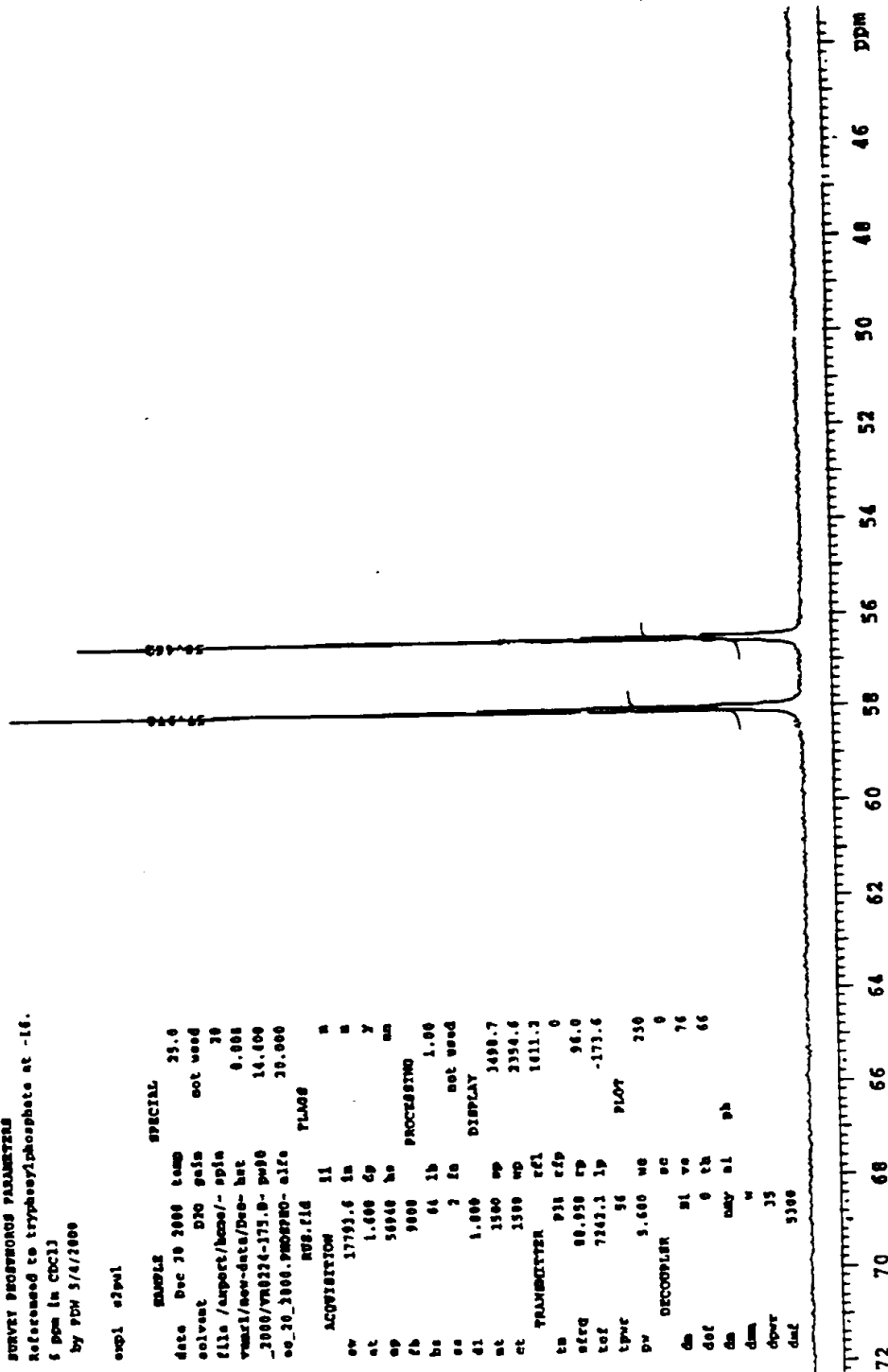


Figure 4